COURSE SPECIFICATION FORM

for new course proposals and course amendments

DEPARTMENT OF MATHEMATICS				Academic Session: 2017-18	
Course Code:	MT3090	Course Value:	0.5	Status: (ie:Core, or Optional)	Optional for G100, G103, G1G3, GF13, GFC3, GC18
Course Title:	Mathematics in the Classroom			Availability: (state which teaching terms)	Term 2
Prerequisites:	Either at least five Mathematics half units or at least three Mathematics half units and three Physics or Psychology half units taken in the previous year.			Recommended:	none
Co-ordinator:					
Course Staff:					
Aims:	 to develop a range of communication and teaching skills appropriate to a particular Key Stage; to act as a role model to pupils; to gain confidence in communicating mathematics; to learn how to develop projects and teaching methods suitable for pupils at school. 				
Learning Outcomes:	On completing the scheme, students should be able to: understand the needs of the individual pupils; answer questions on mathematics with the appropriate vocabulary at the selected level up to A-level; assess and devise appropriate ways to communicate principles and concepts; prepare lesson plans and teaching materials; report on what they have learnt.				
Course Content:	Mathematics in the Classroom is offered as part of the Undergraduate Ambassadors Scheme (UAS). UAS is endorsed by the DTI and DfES joint project 'Science and Engineering Ambassadors Scheme'. The Mathematics Department at Royal Holloway is one of a number of university departments across the country presently offering a course under the scheme, though the aim of the scheme is to have most university science and engineering departments participating. The scheme provides an opportunity for third year undergraduates to gain valuable transferable skills by giving them first-hand experience of science education. There will be an initial one day of training in the first term, including an introduction to working with children and conduct in the school environment. To assist with the selection process students will be asked to apply for the course and subsequently to give a ten minute mock lesson. Each successful candidate will be matched with a specific teacher in a school, who will act as trainer and mentor and will help to determine the tasks and responsibilities of the student. There is a course handbook prepared along UAS guidelines.				
Teaching & Learning Methods:	Each student spends half a day each week for the second term in a local school under the supervision of a teacher, and writes a report on the experience. The students will also meet weekly with the course coordinator.				
Key Bibliography:	A wide range of teaching material is available, depending on the Key Stage, for example the material from Co-ordination Group Publications. Material from www.crocodile-clips.com , in particular for elementary geometry and curves.				
Formative Assessment & Feedback:	Weekly monitoring in the classroom by the teacher, with feedback to the student and to the course coordinator.				
Summative Assessment:	Exam (%) None Coursework (%) An end of course report of about 5000 words prepared by the student (70%), and a 30 minute oral presentation (30%). Deadlines: Report: start of Term 3; Oral presentation: week 5 of Term 3.				